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APPLICATION NO. FILING DATE		FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/965,213 09/26/2001		Wen-Hsiao Peng	042390.P11905	2889		
8791	7590	07/11/2006		EXAMINER		
		LOFF TAYLOR & DULEVARD	PHILIPPE, GIMS S			
	H FLOOR	JULLVARD	ART UNIT	PAPER NUMBER		
LOS ANGELES, CA 90025-1030				2621		
			DATE MAILED: 07/11/2006			

Please find below and/or attached an Office communication concerning this application or proceeding.

		Ap	plication No.		Applicant(s)				
Office Action Summary			09/965,213 PENG E		PENG ET AL.	ET AL.			
			aminer		Art Unit				
		Gir	ns S. Philippe		2621				
Th	e MAILING DATE of this commun			with the co	rrespondence ad	idress			
Period for Re	ply								
WHICHEN - Extensions after SIX (6 - If NO perior - Failure to re Any reply re	ENED STATUTORY PERIOD F /ER IS LONGER, FROM THE N of time may be available under the provisions) MONTHS from the mailing date of this common of for reply is specified above, the maximum strain of the section of the	IAILING DATE of 37 CFR 1.136(a). nunication. atutory period will app will, by statute, caus	OF THIS COMMUNION IN no event, however, may oly and will expire SIX (6) Me the application to become	NICATION. y a reply be time MONTHS from the ABANDONED	ly filed ne mailing date of this c (35 U.S.C. § 133).	•			
Status									
1)⊠ Res	ponsive to communication(s) file	ed on 09 June 2	2006.						
		2b)⊠ This acti							
3)☐ Sinc	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is								
clos	ed in accordance with the pract	ce under <i>Ex pa</i>	arte Quayle, 1935 C	D. 11, 453	3 O.G. 213.				
Disposition o	f Claims								
4)⊠ Clai	m(s) <u>1-44</u> is/are pending in the	application.							
4a) (4a) Of the above claim(s) is/are withdrawn from consideration.								
5)∏ Clai	Claim(s) is/are allowed.								
•	☑ Claim(s) <u>1-44</u> is/are rejected.								
	m(s) is/are objected to.								
8)∐ Clai	m(s) are subject to restric	ction and/or ele	ction requirement.						
Application P	apers								
9) <u></u> The :	specification is objected to by th	e Examiner.							
10) <u></u> The ⋅	drawing(s) filed on is/are	a)∏ accepte	d or b)⊡ objected t	to by the Ex	xaminer.				
	icant may not request that any obje								
	acement drawing sheet(s) including								
11) The	oath or declaration is objected to	b by the Exami	ner. Note the attach	ned Office A	Action or form P1	ГО-152.			
Priority unde	r 35 U.S.C. § 119								
a)∐ Al	owledgment is made of a claim b)☐ Some * c)☐ None of:		•	i. § 119(a)-	(d) or (f).				
_	Certified copies of the priority								
2.∐						04			
ا.د	Copies of the certified copies application from the Internation	· · · · · · · · · · · · · · · · · · ·		en received	i in this National	Stage			
* See th	ne attached detailed Office action			ot received	!				
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Attachment(s)									
	eferences Cited (PTO-892)		4) Interview						
	raftsperson's Patent Drawing Review (F Disclosure Statement(s) (PTO-1449 or			lo(s)/Mail Date of Informal Pat	e tent Application (PT(O-152)			
)/Mail Date		6) Other: _		+ L	- · ,			

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Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on June 9th 2006 has been entered.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-27, and 34-40 are rejected under 35 U.S.C. 103(a) as being unpatentable over Van der Schaar et al. (US Patent no. 6788740) in view of Wu et al. (US Patent no. 6700933), and further in view of Wang (US Patent no. 6118817).

Regarding claims 1, 12, and 23, Van der Schaar discloses a system and method comprising the steps of quantizing coefficients into quantized values (See fig. 2, DCT

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unit 214 and quantization unit 216), and encoding into an enhancement layer bitstream (See fig. 2, items 252 and 256, and col. 8, lines 16-30).

It is noted that Van der Schaar et al. is silent about coefficients representing input data as specified in the claims.

Wu discloses quantizing coefficients wherein the coefficients represent input data (See Wu col. 21, lines 57-67, and col. 23, lines 3-22).

Therefore, it is considered obvious that one skilled in the art at the time of the invention would recognize the advantage of modifying Van der Schaar's quantization step by incorporating the teaching of Wu. The motivation for performing such a modification in Van der Schaar is to provide an efficient layered video coding scheme that adapts to bandwidth fluctuation and also exhibits good error recovery characteristics as taught by Wu (See Wu col. 3, lines 27-30).

It is also noted that although Wu encodes the video data into base and enhancement layers (See Wu fig. 9, items 210, 212 and 220; and col. 6, lines 2-4 and lines 49-61), the combination of Van der Schaar and Wu is silent about each quantized value having an integer part and a fractional part as claimed.

However, Wang discloses an encoding method and apparatus wherein the quantized value for a coefficient having an integer part and a fractional part as specified in the claims (See Wang col. 8, lines 27-36).

Therefore, it is considered obvious that one skilled in the art at the time of the invention would recognize the advantage of modifying the quantizing step of the proposed combination of Van der Schaar and Wu by incorporating Wang quantized

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value for a coefficient having an integer part and a fractional part in the encoding method. The motivation for performing such a modification in the proposed combination is to preserve and represent the small changes in the quantization of the frames of the motion video signal as taught by Wang (See Wang col. 8, lines 31-35).

Regarding claims 6-11, and 17-22, most of the limitations of these claims have been noted in the rejections of claims 1, 12, 23. In addition, Van der Schaar discloses a method comprising decoding an enhancement layer bitstream into quantized fractional values representing enhancement layers (See col. 9, lines 38-55), applying an inverse quantization to the quantized values to create coefficients representing the enhancement layers (See inverse quantization unit 224 and residual calculator, and col. 9, lines 56-65), combining the coefficients representing the enhancement layers with coefficients representing a base layer (See Decoded Video of from residual unit 356 of Fig. 3, and col. 9, lines 5-37), and applying an inverse transformation to the combined coefficients (See inverse transformation unit 354 of fig. 3, and col. 7, lines 63-66).

As per claims 34 and 39, all of the limitations of these claims have been noted in the above rejection of claims 1, 12, and 23.

As per claims 2, 13, and 24, the combination of Van der Schaar, Wu and Wang further encodes the integer part of the base layer (See Vander Schaar col. 7, lines 39-54).

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As per claims 3, 14, 25, Van der Schaar further transforms inputs into coefficients (See col. 7, lines 23-33).

As per claims 4, 15, 26, and 35-37, Van der Schaar further suggests removing temporal redundancies (See col. 3, lines 32-45).

As per claims 5, 16, 27, and 38, Van der Schaar further suggests frequency ordered enhancement layers (See col. 7, lines 4-22).

As per claim 40, Van der Schaar further adds temporal redundancies to the base layer (See col. 7, lines 43-66).

4. Claims 28-33, and 41-44 are rejected under 35 U.S.C. 103(a) as being unpatentable over De Bonnet et al (US Patent no. 6,510,177) in view of Wu et al. (US Patent no. 6700933).

As per claims 28, 30, 32, 41 and 43, De Bonnet et al discloses in fig. 1 a system comprising a processor (See fig. 1, processor 102); a memory coupled to the processor though a bus (See system memory 104 connected to bus 106); and a decoding process executed from the memory by the processor to cause the processor to decode an enhancement layer bitstream into quantized fractional values representing enhancement layers (See fig. Video adaptor 148, and col. 8, lines 8-12), to apply an

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inverse quantization to the quantized fractional values to create coefficients representing the enhancement layers (See col. 16, lines 50-56), to apply an inverse transformation to the coefficients to create the enhancement layers, and to combine the enhancement layers with a base layer (See col. 16, lines 50-55).

It is noted that De Bonnet is silent about coefficients representing input data as specified in the claims.

Wu discloses quantizing coefficients wherein the coefficients represent input data (See Wu col. 21, lines 57-67, and col. 23, lines 3-22).

Therefore, it is considered obvious that one skilled in the art at the time of the invention would recognize the advantage of modifying De Bonnet quantization step by incorporating the teaching of Wu. The motivation for performing such a modification in Van der Schaar is to provide an efficient layered video coding sheme that adapts to bandwidth fluctuation and also exhibits good error recovery characteristics as taught by Wu (See Wu col. 3, lines 27-30).

As per claims 29, 31, 33, 42 and 44, De Bonet further discloses adding temporal redundancies to the base layer (See De Bonet col. 16, lines 5-37).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Gims S. Philippe whose telephone number is (571) 272-7336. The examiner can normally be reached on M-F (10:30-7:00).

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dastouri S. Mehrdad can be reached on (571) 272-7418. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Gims S Philippe

Primary Examiner

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GSP

July 6, 2006